

Notice of Allowability

Application No.

09/934,870

Examiner

Olisa Anwah

Applicant(s)

TATEMORI ET AL.

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 3/23/6.
2. ☒ The allowed claim(s) is/are 1,3,5 and 7-9.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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EXAMINER'S AMENDMENT

1. Claims 1, 3, 5 and 7-9 are allowed.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Amendment to Application

3. Because the term "the transmitting circuit" lacks antecedent basis in claims 1 and 5, the application has been amended as follows:
 - a) Regarding claim 1, line 21
--circuit--has been replaced with "side";
 - b) Regarding claim 5, line 20
--based on said carrier wave frequency of the transmitting circuit.--has been replaced with "based on said carrier wave frequency."

Allowable Subject Matter

4. Among other things, Johnson, U.S. Patent No. 5,675,609 (hereinafter Johnson) fails to show said reference pulse signal

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is formed such that the reference pulse signal is provided with a predetermined width and a predetermined period based on said carrier wave frequency. For this reason, claims 1, 3 and 5 are allowed.

Regarding claim 8, Johnson fails to teach the frequency obtained based on the frequency obtained by said amplitude detector means is mixed with the frequency of the output signal of said intermediate frequency amplifier, and the frequency representing the sum or difference there between is fed to said demodulator as a local carrier frequency wave. Hence claim 8 is allowed.

With further respect to Applicant's claims, Mohan et al, U.S. Patent No. 6,741,646 (hereinafter Mohan) discloses a radio apparatus comprising:

- a transmitting circuit for single side band communications (see lines 10-15 of column 4);
- a digital data modulator (see abstract);
- an intermediate frequency amplifier (see Figure 6);
- a digital data demodulator (see abstract); and
- a pulse signal generator (see abstract).

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However, among other things, Mohan fails to teach a sine wave shaped reference pulse signal having a predetermined width and period, and sine wave shaped modulation pulse signals having the same width as the reference pulse signal, wherein said reference pulse signal is formed such that the reference pulse signal is provided with a predetermined width and a predetermined period based on said carrier wave frequency of the transmitting circuit.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olisa Anwah whose telephone number is 571-272-7533. The examiner can normally be reached on Monday to Friday from 8.30 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone numbers for the

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organization where this application or proceeding is assigned
are 571-273-8300 for regular communications and 571-273-8300 for
After Final communications.

Any inquiry of a general nature or relating to the status
of this application or proceeding should be directed to the
receptionist whose telephone number is 571-272-2600.

O.A.

Olisa Anwah
Patent Examiner
June 23, 2006

A handwritten signature in cursive script, appearing to read "King Tu Chan".